

☐ Drafts  
☒ Pending  
☒ Active  
☐ L1: (52) "RITZDORF THOMAS LS".in.  
☒ L2: (24074) (anneal or anneals or annealed or annealing).clm.  
☒ L3: (10) 11 and 12  
☒ L4: (22) "STEVENS ES HENRY".in.  
☒ L5: (7) 14 and 12  
☒ L6: (4) 15 not 13  
☒ L7: (52) "CHEN LINLIN".in.  
☒ L8: (5) 17 and 12  
☒ L9: (1) 18 not (13 or 16)  
☒ L10: (35) "GRAHAM LYNDON W5".in.  
☒ L11: (8) 110 and 12  
☒ L12: (0) 111 not (13 or 16 or 19)  
☒ L13: (19) "DUNDAS CURT".in.  
☒ L14: (5) 113 and 12  
☒ L15: (0) 114 not (13 or 16 or 19)  
☒ Failed  
☒ Saved  
☒ Favorites  
☒ Tagged (0)  
☒ UDC  
☒ Queue  
☒ Trash

Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Inventor	U	S	C	P	1	3	PT

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☐ Drafts  
☐ Pending  
☒ Active

- L1: (1) ("6136163").PN.
- L2: (321) (204/198).CCLS.
- L3: (197692) wafer or wafers
- L4: (50) 12 and 13
- L5: (17982) (204/198-297.16).CCIS.
- L6: (1309458) transfer or transfers or transferred or transferring
- L9: (143312) anneal or anneals or annealed or annealing
- L10: (7041) 18 same 19
- L11: (95) 110 and 13 and 15
- L12: (79) 111 not 14
- L13: (53893) electroplating or electrodeposition
- L14: (12846) (electrolyt\$ or electrochem\$) near2 deposit\$
- L15: (15146) (electrolyt\$ or electrochem\$) near2 (plate or plates or plated or plating)
- L16: (70032) 113 or 114 or 115
- L17: (55) 116 same 19 same 18 same 13
- L18: (36) 117 not (112 or 14)

☐ Failed

☐ Saved

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DB: USF&PUB:USPAT

Default generator: AOU

117 not (112 or 14)

☐ Print  
☒ Highlight all hit terms only

BRS form ☐ ISIR form ☐ Image ☐ Text ☐ HTML

Document ID	Issue Date	Pages	Title	Current OR	Current xRef	Inventor	U	S	C	P	1	3	PT2
1	US 20050149217	20050707	39	Semiconductor manufacturing system, work	700/99	Okada, Yoshio et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	A1		manufacturing system, and conveyance										
3	US 20050048776	20050303	7	INTEGRATED CIRCUIT COPPER PLATEABLE	438/687	Papa Rao, Satyavolu S. et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	A1		BARRIERS										
5	US 20040248405	20041209	26	Method of and apparatus for manufacturing semiconductor device	438/637	Fukunaga, Akira et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	A1		Integration of annealing capability into metal deposition or CMP tool	438/687									
7	US 20040229459	20041118	8	Transfer devices for handling microelectronic workpieces within an	156/345.1	Yu, Jick M.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	A1		Method and apparatus to deposit layers with uniform properties	414/744.5		Woodruff, Daniel J. et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	US 20040168926	20040902	7	End-effectors and transfer devices for handling microelectronic workpieces	205/117; 205/143;	Basol, Bulent M. et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	A1		Method and apparatus for annealing copper films	205/137		Woodruff, Daniel J. et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	US 20040037691	20040226	19	Method for reducing cu surface defects following cu ECP	414/744.5	Chueh, Chia-Liang et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	A1		Method and apparatus for annealing copper films	205/220		Chen, B. Michelle et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	US 20040004004	20040108	7	Apparatus and method for removing coating layers from alignment marks	205/224; 257/821.591	Cheng, Aaron et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	A1		End-effectors for handling microelectronic workpieces	134/3		Woodruff, Daniel J. et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	US 20030085582	20030508	21	End-effectors for handling microelectronic workpieces	134/153; 294/907; 414/941		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	A1		End-effectors for handling microelectronic workpieces	294/103.1		Woodruff, Daniel J. et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	US 20030082042	20030501	31	End-effectors for handling microelectronic workpieces	414/744.5	Woodruff, Daniel J. et al.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	A1		microelectronic workpieces				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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